

Hana Shalaby 900223042

CS 2

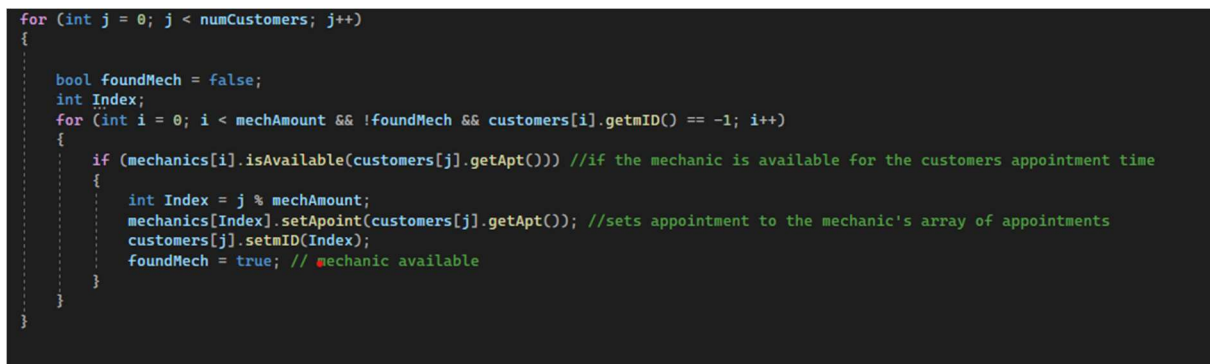
Assignment 3 Report

Output screenshot:



```
MINGW64:/c/Users/hanaa/source/repos/cs 2/assignment-3
hanaa@hana MINGW64 ~
$ cd "C:\Users\hanaa\source\repos\cs 2\assignment-3"
hanaa@hana MINGW64 ~/source/repos/cs 2/assignment-3 (master)
$ g++ assignment-3.cpp person.cpp mechanic.cpp customer.cpp queueec.h -o output
hanaa@hana MINGW64 ~/source/repos/cs 2/assignment-3 (master)
$ ./output
Ahmed has an appointment at 1:0 with Khaled.
Mohammed has an appointment at 1:0 with Ayman.
Kareem has an appointment at 3:0 with Mai.
Sara has an appointment at 4:0 with Khaled.
hanaa@hana MINGW64 ~/source/repos/cs 2/assignment-3 (master)
$
```

I had difficulties with exceptions and memory allocation because one of my loops was an infinite loop, and it caused the compiler to call the abort () function during runtime. I fixed this error by changing the conditions of my loop that checks the availability of the mechanic.



```
for (int j = 0; j < numCustomers; j++)
{
    bool foundMech = false;
    int Index;
    for (int i = 0; i < mechAmount && !foundMech && customers[i].getmID() == -1; i++)
    {
        if (mechanics[i].isAvailable(customers[j].getApt())) //if the mechanic is available for the customers appointment time
        {
            int Index = j % mechAmount;
            mechanics[Index].setApoint(customers[j].getApt()); //sets appointment to the mechanic's array of appointments
            customers[j].setmID(Index);
            foundMech = true; // mechanic available
        }
    }
}
```

The problem was with the index values of the separate arrays

Other than that I had no issues